

## ModularNode MK3

### Description

This waterproof node has a built-in 4000mAh LiPo battery, which can optionally be charged via an integrated or external solar module.

The modular design makes it easy to add different sensors using waterproof connectors. Up to 3 external sensors can be connected directly. If more sensors are required, the sensor connections can be expanded using a distribution cable.

Furthermore, the node can be internally supplied with new interfaces by 2 plug-in modules. An external antenna can be connected for areas with poor radio coverage.

Configuration is done with our WASN Configurator software for Microsoft Windows.

### Specifications

- ☐ Timer and interrupt triggered measurement
- ☐ Integrated 4000mAh LiPo battery
- ☐ Solar charge option
- ☐ IP67 rated casing
- ☐ Complete modular design

### Technical details

- ☐ based on an ASR650x MCU
- ☐ DeepSleep current of 16uA
- ☐ 3 external sensor interfaces with IIC and OneWire
- ☐ 2 internal plugin ports for various expansions:
  - Serial interface
  - RS485
  - Digital I/O
  - Analog inputs
  - ATECC608 crypto chip
  - ...

### Supported Sensors:

- |   |   |
|---|---|
| <input type="checkbox"/> Temperature, Humidity  | <input type="checkbox"/> Wind speed and direction |
| <input type="checkbox"/> Air pressure           | <input type="checkbox"/> Vibration                |
| <input type="checkbox"/> Soil moisture          | <input type="checkbox"/> Magnetic field           |
| <input type="checkbox"/> Leaf wetness           | <input type="checkbox"/> Different gases like CO2 |
| <input type="checkbox"/> UV and light intensity | <input type="checkbox"/> ...                      |

